

Citrate Synthase Activity Colorimetric Assay Kit

Cat. No. Kit-2281 **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Citrate Synthase (EC 2.3.3.1) is a key enzyme that is present in all living organisms. It catalyzes the conversion of acetyl-CoA and oxaloacetate into citrate and serves as a marker for intact mitochondria. A recent study showed that increased activity of mitochondrial Citrate Synthase is directly associated with metabolic and endocrine abnormalities such as obesity. In Citrate Synthase Activity Assay Kit, Citrate Synthase reacts with substrate mix to form an intermediate, which subsequently reacts with developer to generate the colored product. The rate of color development is proportional to the enzyme activity. The assay is simple, rapid and can detect Citrate Synthase activity less than 1 mU in a variety of samples.
Applications	Measurement of citrate synthase activity in various tissues/cells Analysis of intact mitochondria.
Storage	-20°C
Shipping	Gel Pack
Size	100 assays
Kit Components	CS Assay Buffer; CS Substrate Mix (Lyophilized); CS Developer (Lyophilized); GSH Standard (reduced) (Lyophilized); CS Positive Control (Lyophilized)
Detection method	Absorbance (412 nm)
Features & Benefits	Simple, rapid & convenient;

 Tel: 1-631-559-9269 1-516-512-3133

 Email: info@creative-biomart.com  Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA

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